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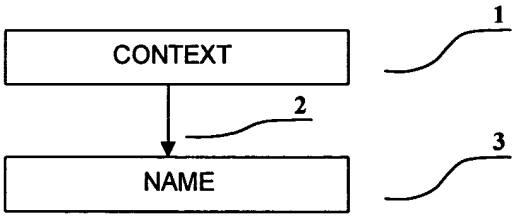

FIG. 1

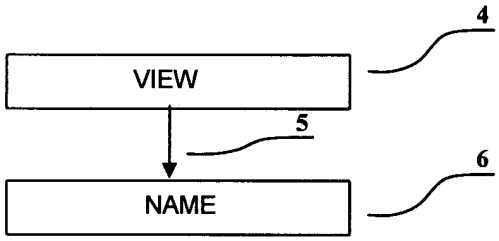

FIG. 2

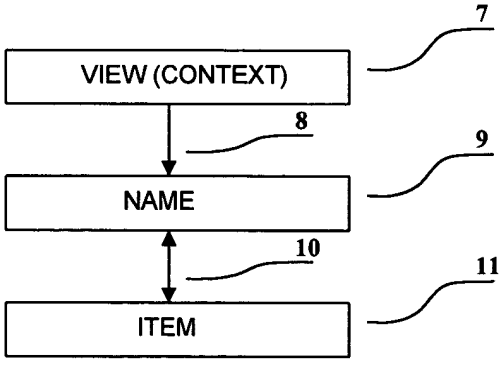

FIG. 3

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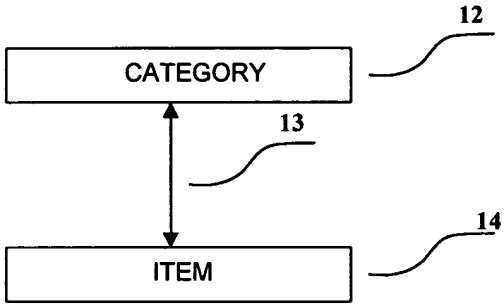

FIG. 4

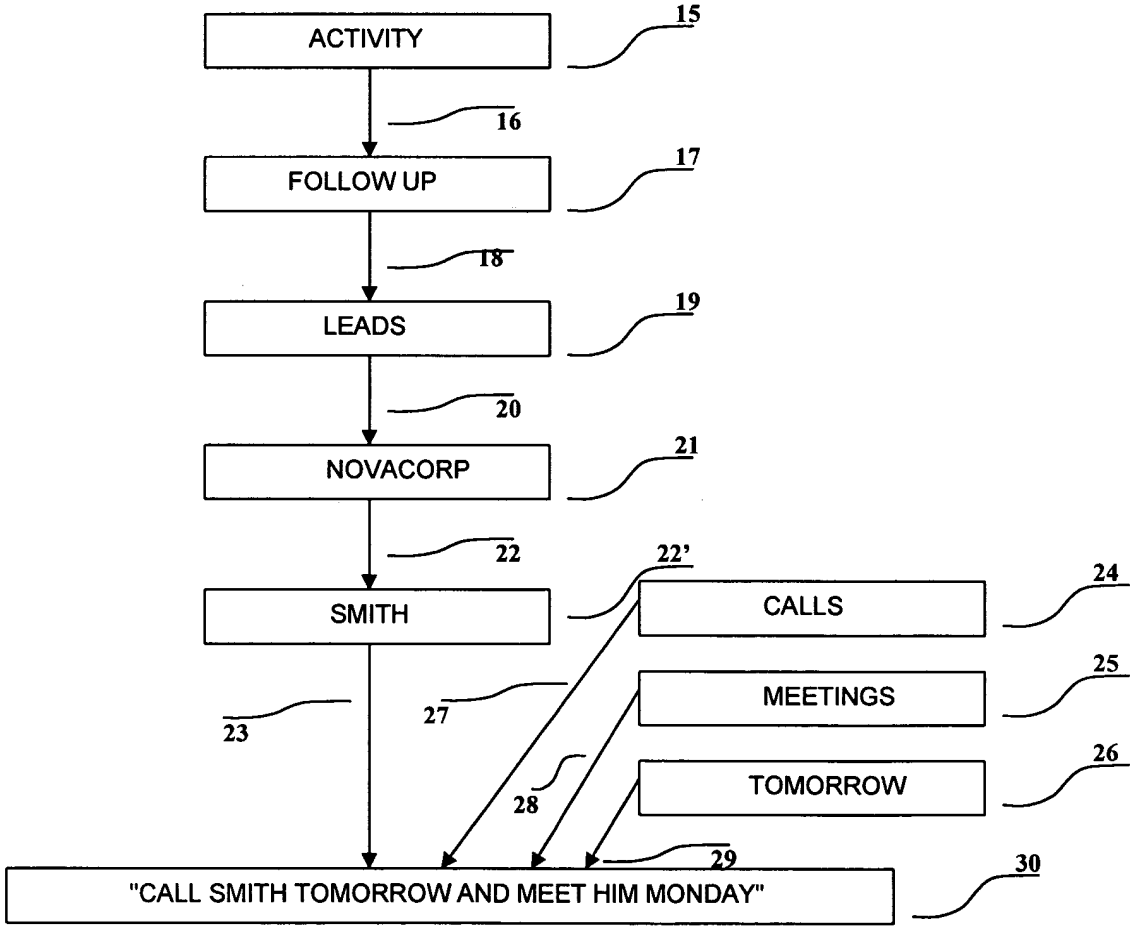

FIG. 5

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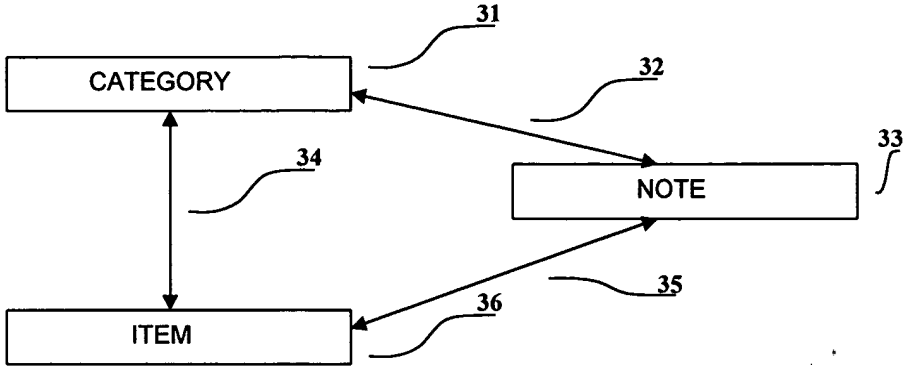

FIG. 6

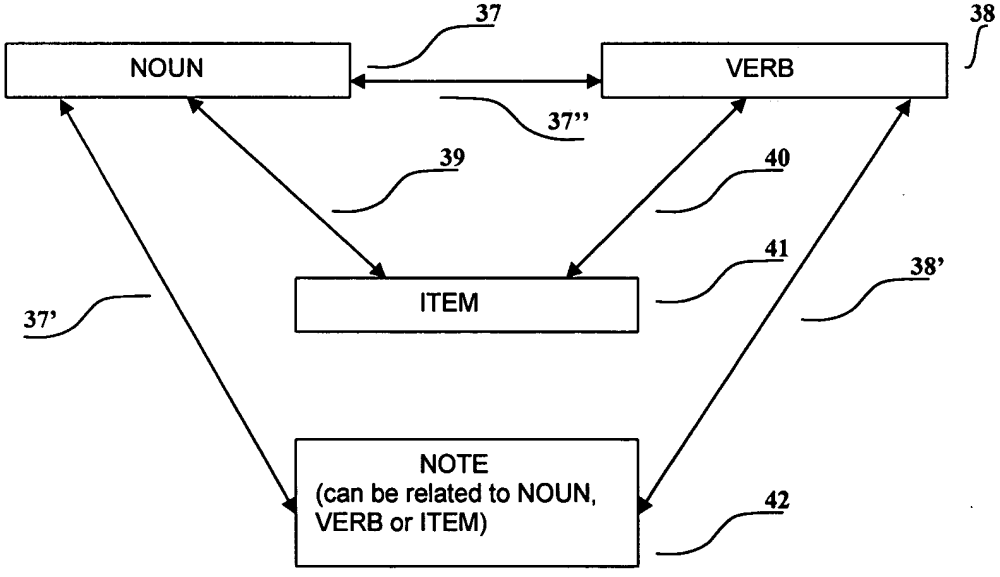

FIG. 7

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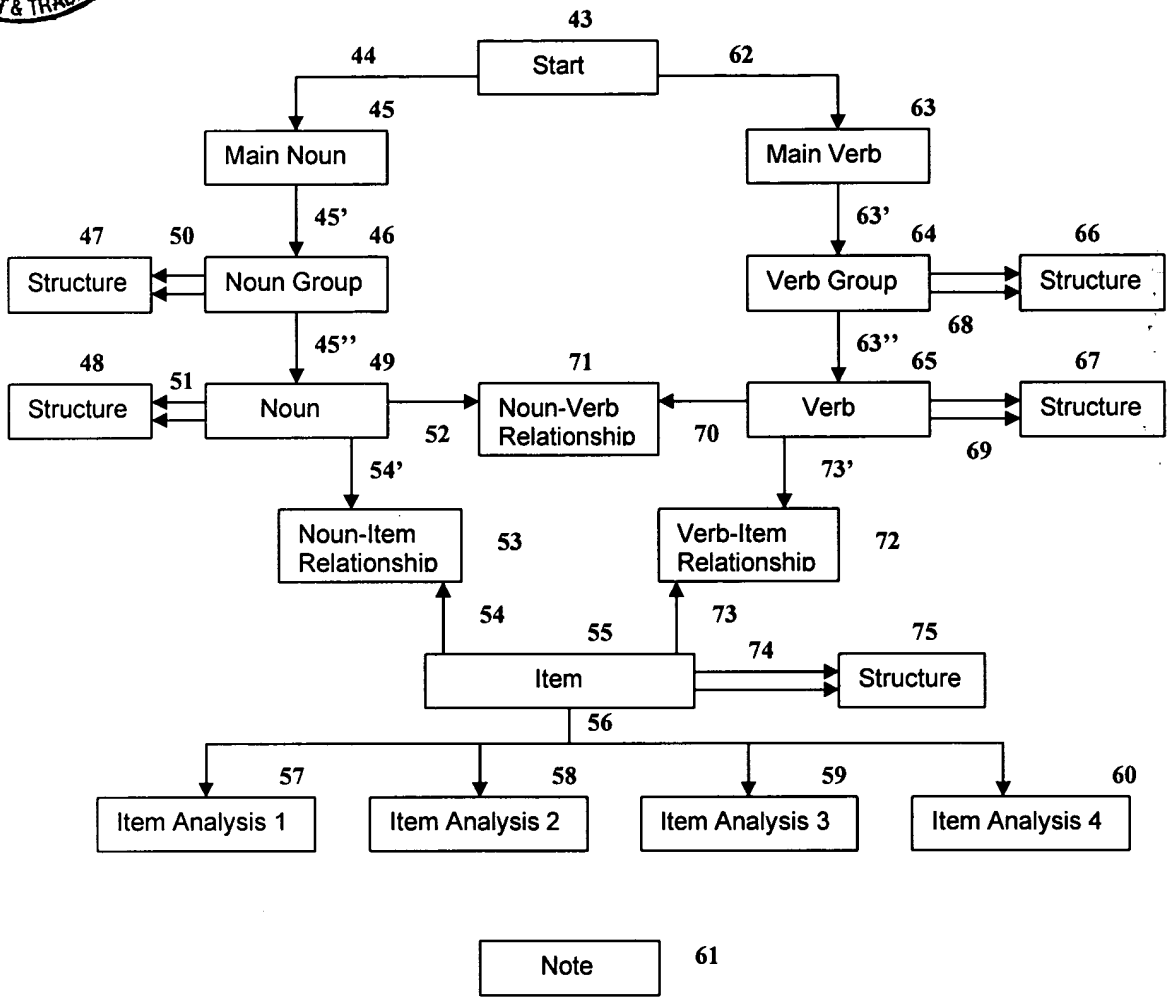

FIG. 8

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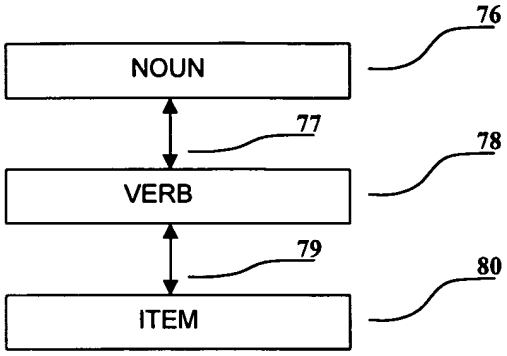

FIG. 9

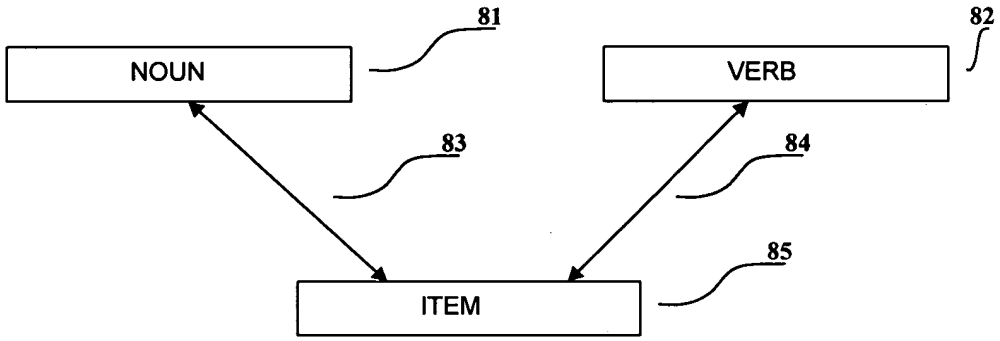

FIG. 10

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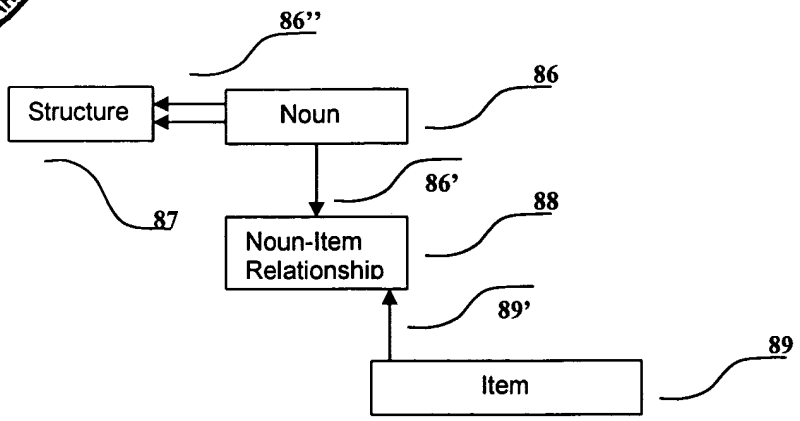

FIG. 11

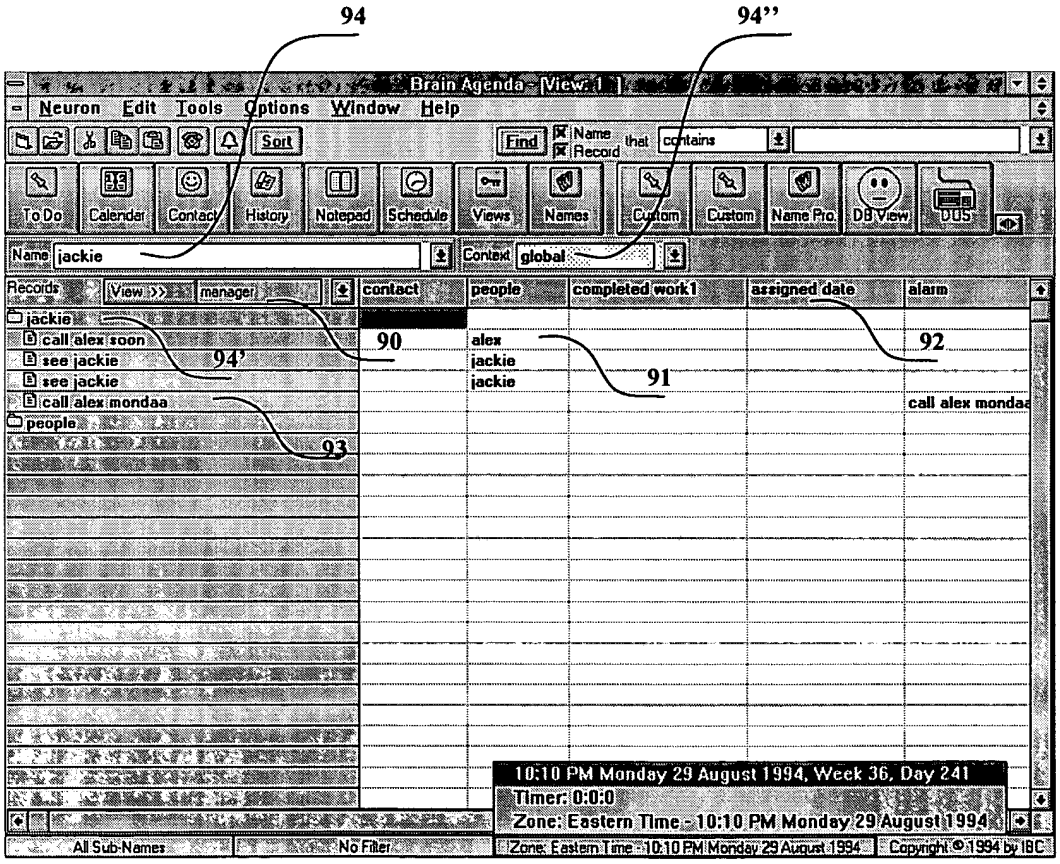

FIG. 12

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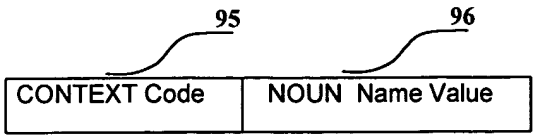

FIG. 13

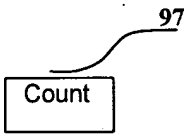

FIG. 14

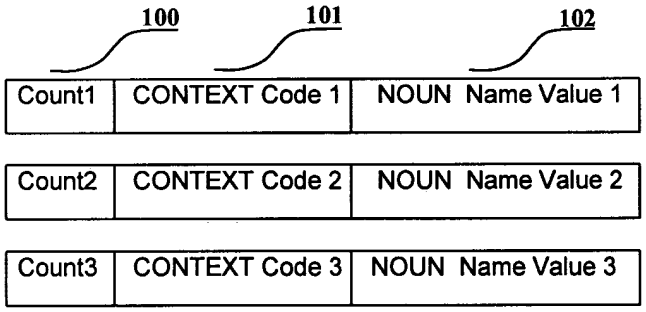

FIG. 15

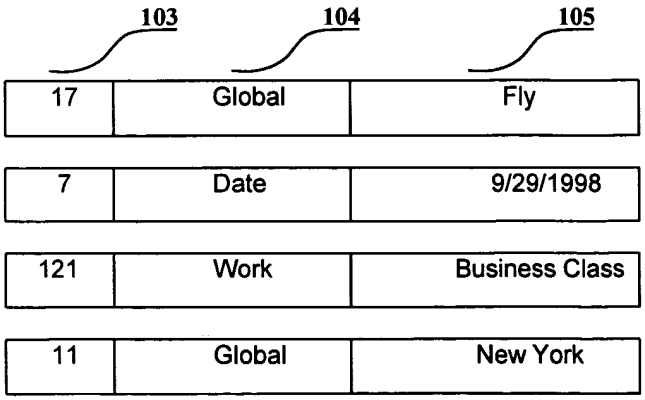

FIG. 16

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```
/*****************************************************************************
/
/*
*/
/*            BRAIN     Schema for the database BRAIN.
*/
/*                      Global schema for every neuron.
*/
/*
*/
/*  Identyfication:
*/
/*                  1000-0-00-00-00
*/
/*                  ---- - -- -- --       neuron   0001/.../1000
*/
/*                                        portion  0/1/2
*/
/*                                        relation 00/10/.../54
*/
/*                                        release   1
*/
/*                                        version   1
*/
/*
*/
/*             Portion     1
*/
/*                         0             Abstraction
*/
/*                         1             Reality
*/
/*                         2             Abstraction-Reality
relation*/
/*
*/
/*             Part        11            Noun+Data+Doc
*/
/*                         10            Noun
*/
/*                         14            Noun-Data
*/
/*                         15            Noun-Doc
*/
/*                         40            Data
*/
/*                         45            Data-Doc
*/
/*                         50            Doc
*/
/*
*/
/*             Release     01
*/
```

FIG. 17A

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```
                              01              Alpha release
*/
/*                            02              Beta  release
*/
/*
*/
/*              Version       01
*/
/*                            01              Alpha version
*/
/*                            02              Beta  version
*/
/*
*/
/************************************************************************
/
/* Module name : Brain Agenda - Personal Information Manager
*/
/*                NEURON_1000
*/
/************************************************************************
/
/* Implemented : RAIMA, db_VISTA III
*/
/*
*/
/* Compile type: ddp
*/
/*                def. ddlp -rxbds brain.ddl
*/
/*                     -r - report
*/
/*                      x - cross reference
*/
/*                      b - no alignment
*/
/*                      d - dupl. field names
*/
/*                      s - case preserve
*/
/************************************************************************
/
/* 1. | BRAIN   | 1991.09.01 | New
*/
/************************************************************************
/
/* 1000-0-00-00-00    6144*/
database BRAIN [6144]
  {
    data file "F100010.00" contains
/* 1000-0-10-00-00 */
                                              noun;
    data file "F100011.00" contains
/* 1000-0-11-00-00 */
```

FIG. 17B

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```
                              datar,
                              datar_tabl;
    data file "F100012.00" contains
/* 1000-0-11-00-00 */
                              noun_datar,
                              noun_str,
                                        noun_synonim,
                              datar_str,
                                        action_before,
                              action_after;

     data file "F100019.00" contains
/* 1000-0-10-00-00 */
                              brain,
/* 1000-0-50-00-00 */
                              note;

    key  file "F100010.00K" contains
                              noun.id;
    key  file "F100011.00K" contains
                              datar.id;
    key  file "F100019.00K" contains
                              note.id;
/*********************************************************************
/
/* Sub-schema  : BRAIN - NOUN
*/
/* Description : Noun (Parameter) part of BRAIN
*/
/*********************************************************************
/
/* Record type : brain
*/
/* Description : Start of the NEURON  1000
*/
/*********************************************************************
/
    record brain
      {
      char           db_path [81];      /* Path to database         */
      char           db_name [81];      /* name of the db "brain"   */
      struct
          {
          long          type_v;       /* noun type, view id       */
          char          kname_v [41]; /* noun 40B + 1B null termin*/
          long          subtype_v;    /* noun subtype, def = 0    */
        } id_v;
          char          name_v [256]; /*                          */
        struct
          {
          long          type_n;       /* noun type, name id       */
          char          kname_n [41]; /* noun 40B + 1B null termin*/
          long          subtype_n;    /* noun subtype, def = 0    */
          long          type2_n;      /* noun 2 type, def = 0     */
```

FIG. 17C

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```
        char          kname2_n [41];/* noun 40B + 1B null termin*/
        long          subtype2_n;   /* noun subtype, def = 0    */
        } id_n;
          char          name_n [256];   /*
*/
      long          read_action;       /* action on load          */
      long          next_1;            /* next available ???      */
      long          next_2;            /* number for extention    */
      long          next_3;            /* noun ext.,noun definition*/
      long          value_1 ;          /*                         */
      long          value_2 ;          /*                         */
      long          value_3 ;          /*                         */
      double        double_1;          /*                         */
      double        double_2;          /*                         */
      double        double_3;          /*                         */
      char          reserve_1[41];     /*                         */
      char          reserve_2[41];     /*                         */
      char          free[5001];        /*                         */
      }
/*****************************************************************
/
/* Record type : noun
*/
/* Description : names (views,names,contexts)
*/
/*****************************************************************
/
    record noun
      {
        unique key struct
          {
          long          type;       /* noun type, def = 0       */
          char          kname [41]; /* noun 40B + 1B null termin*/
          long          subtype;    /* noun subtype, def = 0    */
          long          type2;      /* noun 2 type, def = 0     */
          char          kname2 [41];/* noun 40B + 1B null termin*/
          long          subtype2;   /* noun subtype, def = 0    */
          } id;
          char          name[256]; /* 255+1                     */
      struct
          {
          long          type_p;       /* noun type, pair id       */
          char          kname_p [41]; /* noun 40B + 1B null termin*/
          long          subtype_p;    /* noun subtype, def = 0    */
        } id_p;
            long   cf;                /* certainity factor        */
            long   delete;            /*                          */
            long   joint_id;          /* neuron||joint     long   */
            long   read_action;       /* action on read           */
            double date_create;       /*                          */
            double date_when;         /*                          */
            double date_done;         /*                          */
            double date_start;        /*                          */
            double date_end;          /*                          */
```

FIG. 17D

```
        char     short_name [21];     /*            1B null termin*/
        char     cat_type [11];       /*            1B null termin*/
        char     exclusive [2];       /*            1B null termin*/
        char     settings [41];       /*            1B null termin*/
        long     layout_link;    /* type of layout for linked note*/
      struct
        {
          long          type_link;      /* link to extention which  */
          char          kname_link [41];/* is in note               */
          long          subtype_link;   /*reserve the range of notes*/
        } id_link;
      struct
        {
            long   type_note;         /* note id                  */
            char   kname_note [41];   /* note name                */
            long   subtype_note;      /* note page                */
        } id_note;
            long   position_note;     /*         in document/page */
            char   free_1  [101];
            char   free_2  [101];
            char   reserve_1[21];     /*3 sets person company     */
            char   reserve_2[11];     /*       notes (commence)   */
            char   reserve_3[11];     /*       notes (commence)   */
      }
/*********************************************************************
/
/* Record type : datar                                    */
/* Description : records from Brain Agenda
*/
/*********************************************************************
/
    record datar
      {
        unique key struct
          {
          long          type;       /* data type, def = 0       */
          char          kname [41]; /* data 40B + 1B null termin*/
          long          subtype;    /* data subtype, def = 0    */
        } id;
          char          name[256]; /* 255+1                     */
                long   cf;               /* certainity factor
*/
            long   delete;            /*                          */
                long   joint_id;          /* neuron||joint     long
*/
            long   read_action;       /* action on read           */
            double date_create;       /*                          */
            double date_when;         /*                          */
            double date_done;         /*                          */
            double date_start;        /*                          */
            double date_end;          /*                          */
            char   settings [41];     /*            1B null termin*/
      struct
        {
```

FIG. 17E

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```
            long    type_note;          /* note id                    */
            char    kname_note [41];    /* note name                  */
            long    subtype_note;       /* note page                  */
        } id_note;
            long    position_note;      /*         in document/page   */
            long    long_1;             /*                            */
            char    reserve_1[11];      /*                            */
            char    reserve_2[11];      /*                            */
            char    reserve_3[11];      /*                            */
            char    reserve_4[11];      /*                            */
    }
/*********************************************************************
/
/* Record type : datar_tabl                                          */
/* Description : data tables
*/
/*********************************************************************
/
    record datar_tabl
      {
            long    elem [120];         /* 120 elements               */
            long    cf;                 /* certainity factor          */
            long    delete;             /*                            */
            double  date_create;        /*                            */
            long    read_action;        /* action on read             */
            double  double_1;           /*                            */
            char    reserve_1[11];      /*                            */
            char    reserve_2[21];      /*                            */
    }
/*********************************************************************
/
/* Record type : note
*/
/* Description : notes (pages ) document
*/
/*********************************************************************
/
    record note
       {
        unique key struct
          {
          long          from;       /* doc id +datar,-name,0-user  */
          long          type;       /* from record or name         */
          char          kname [41]; /* chapter||paragraph||verse
blank*/
          long          subtype;    /* for user=0                  */
          long          page_nr;    /* page nr                     */
        } id;
          char          name [256];    /*                          */
            long    cf;                /* certainity factor       */
            char    chapter  [101];    /*     left on page        */
            char    chapter_1[101];    /*     left on page        */
            char    chapter_2[101];    /*     left on page        */
            char    chapter_3[101];    /*     left on page        */
```

FIG. 17F

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```
            char    chapter_4[101];   /*     left on page          */
            char    chapter_5[101];   /*     left on page          */
            char    chapter_6[101];   /*     left on page          */
            long    verse;            /*     left on page          */
            char    page [5001];      /* page   5001               */
            long    delete;           /*                           */
            long    read_action;      /* action on read            */
            char    reserve_1 [11];
            char    reserve_2 [11];
            char    reserve_3 [11];
            char    reserve_4 [11];
      }
/*************************************************************************
/
/* Record type : noun_str
*/
/* Description : structure of the noun
*/
/*************************************************************************
/
    record noun_str
      {
            long    cf;               /* certainity factor        */
            double  date_create;      /*                          */
            long    read_action;      /* action on read           */
            double  double_1;         /*                          */
            char    reserve_2[11];    /*                          */
            char    reserve_3[11];    /*                          */
      }
/*************************************************************************
/
/* Record type : noun_datar
*/
/* Description : relation noun - datar                            */
/*************************************************************************
/
    record noun_datar
      {
            long    cf;               /* certainity factor        */
            double  date_create;      /*                          */
            long    read_action;      /* action on read           */
            double  double_1;         /*                          */
            char    reserve_2[11];    /*                          */
            char    reserve_3[11];    /*                          */
      }
/*************************************************************************
/
/* Record type : action before
*/
/* Description : must belong to the datar before being assigned to
*/
/*               the current datar                                */
/*************************************************************************
/
```

FIG. 17G

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```
    record action_before
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : noun action after
*/
/* Description : is assigned to noun after being assigned to
*/
/*               the current noun
*/
/*************************************************************************
/
    record action_after
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : noun_synonim
*/
/* Description : all synonims for a noun
*/
/*************************************************************************
/
    record noun_synonim
      {
            long   cf;                /* certainity factor        */
            double date_create;       /*                          */
            long   read_action;       /* action on read           */
            double double_1;          /*                          */
            char   reserve_2[11];     /*                          */
            char   reserve_3[11];     /*                          */
      }
/*************************************************************************
/
/* Record type : datar_str
*/
/* Description : structure of the datar
*/
/*************************************************************************
/
    record datar_str
```

FIG. 17H

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```
        {
              long   cf;                /* certainity factor        */
              double date_create;       /*                          */
              long   read_action;       /* action on read           */
              double double_1;          /*                          */
              char   reserve_2[11];     /*                          */
              char   reserve_3[11];     /*                          */
        }
/*************************************************************************
/
/* Set type    : noun_set
*/
/* Description : Search path for noun
*/
/*************************************************************************
/
    set noun_set
      {
        order descending;
        owner brain;
      member noun by cf;
      }
/*************************************************************************
/
/* Set type    : datar set
*/
/* Description : Search path for datar record
*/
/*************************************************************************
/
    set datar_set
      {
        order descending;
      owner noun;
      member noun_datar by cf;
      }
/*************************************************************************
/
/* Set type    : datar_noun set
*/
/* Description : Search path for noun from datar
*/
/*************************************************************************
/
    set datar_noun_set
      {
        order descending;
      owner datar;
      member noun_datar by cf;
      }
/*************************************************************************
/
/* Set type    : noun_synonim_exp_set
*/
```

FIG. 17I

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```
/* Description : Search path for noun synonim explosion
*/
/*************************************************************************
/
    set noun_synonim_exp_set
      {
        order descending;
      owner noun;
      member noun_synonim by cf;
      }
/*************************************************************************
/
/* Set type    : noun_synonim_imp_set
*/
/* Description : Search path for noun synonim implosion
*/
/*************************************************************************
/
    set noun_synonim_imp_set
      {
        order descending;
      owner noun;
      member noun_synonim by cf;
      }
/*************************************************************************
/
/* Set type    : noun_exp_set
*/
/* Description : Search path for noun explosion
*/
/*************************************************************************
/
    set noun_exp_set
      {
        order descending;
      owner noun;
      member noun_str by cf;
      }
/*************************************************************************
/
/* Set type    : noun_imp_set
*/
/* Description : Search path for noun record from noun_str
*/
/*************************************************************************
/
    set noun_imp_set
      {
        order descending;
      owner noun;
      member noun_str by cf;
      }
/*************************************************************************
/
```

FIG. 17J

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```
/* Set type    : datar_exp_set
*/
/* Description : Search path for datar explosion
*/
/*************************************************************************
/
    set datar_exp_set
      {
        order descending;
      owner datar;
      member datar_str by cf;
      }
/*************************************************************************
/
/* Set type    : datar_imp_set
*/
/* Description : Search path for datar record from datar_str          .
*/
/*************************************************************************
/
    set datar_imp_set
      {
        order descending;
      owner datar;
      member datar_str by cf;
      }
/*************************************************************************
/
/* Set type    : action_before_exp set
*/
/* Description : Search path for action_before from noun
*/
/*************************************************************************
/
    set action_before_exp_set
      {
        order descending;
      owner noun;
      member action_before by cf;
      }
/*************************************************************************
/
/* Set type    : action_before_imp set
*/
/* Description : Search path for action_before from noun
*/
/*************************************************************************
/
    set action_before_imp_set
      {
        order descending;
      owner noun;
      member action_before by cf;
      }
```

FIG. 17K

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```
/*************************************************************************
/
/* Set type    : action_after_exp set
*/
/* Description : Search path for action_after from noun
*/
/*************************************************************************
/
    set action_after_exp_set
      {
        order descending;
      owner noun;
      member action_after by cf;
      }
/*************************************************************************
/
/* Set type    : action_after_imp set
*/
/* Description : Search path for action_after from noun
*/
/*************************************************************************
/
    set action_after_imp_set
      {
        order descending;
      owner noun;
      member action_after by cf;
      }
/*************************************************************************
/
/* Set type    : datar_tabl set
*/
/* Description : Search path for datar_tabl from datar
*/
/*************************************************************************
/
    set datar_tabl_set
      {
        order descending;
      owner datar;
      member datar_tabl by cf;
      }
/* 1000-0-00-00-00 */
  }
/*************************************************************************
/
/* End of Schema: Brain Agenda
*/
/*************************************************************************
/
```

FIG. 17L

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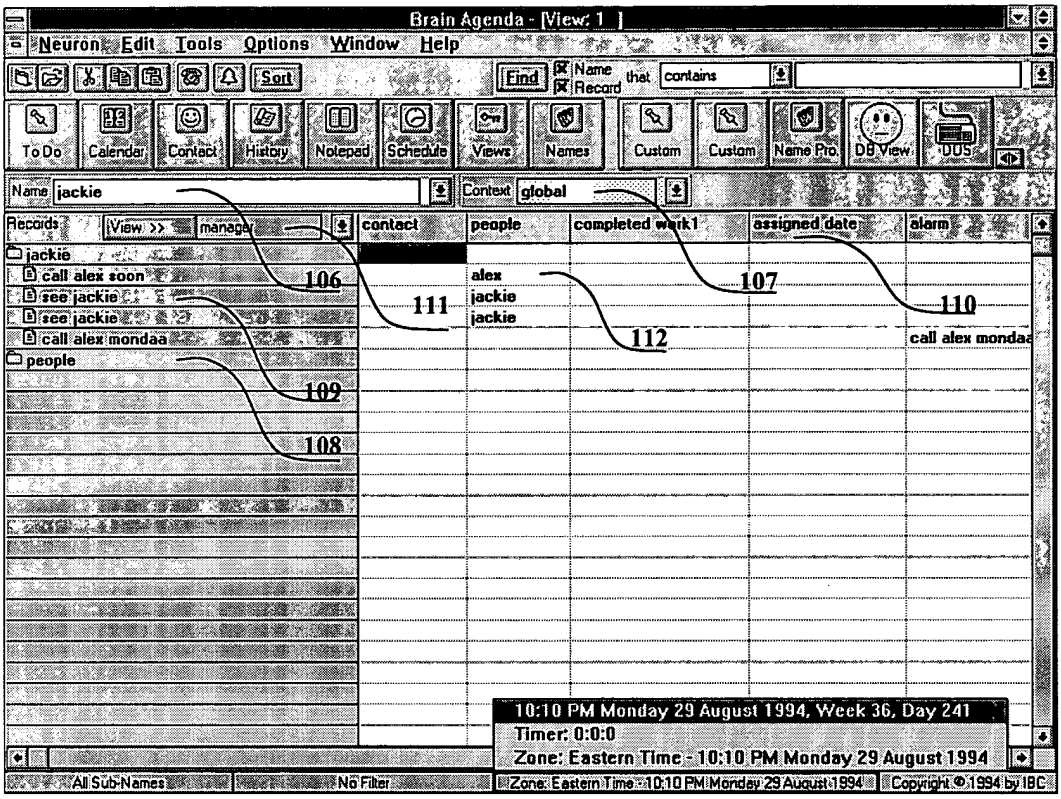

FIG. 18